

CLAIMS

We claim:

Sub A7 1 A security enclosure, comprising:
2 an electronic assembly;
3 a tamper respondent wrap secured at least partially around
4 the assembly; and
5 an extension cable electrically connecting the wrap to the
6 assembly.

- 1 2. The security enclosure of claim 1, wherein the electronic
2 assembly comprises a cryptographic processor card.

1 3. The security enclosure of claim 1, wherein the tamper
2 respondent wrap includes an adhesive inner surface that adheres
3 the wrap to the electronic assembly.

1 4. The security enclosure of claim 1, wherein the tamper
2 respondent wrap further includes a plurality of bonding pads
3 formed at a first end of the wrap.

1 5. The security enclosure of claim 4, wherein the tamper
2 respondent wrap further includes a system of resistors within
3 each layer of the wrap.

1 6. The security enclosure of claim 5, wherein the system of
2 resistors connect ink traces within each layer of the wrap to the
3 bonding pads.

1 7. The security enclosure of claim 1, wherein the extension cable
2 further includes a plurality of interconnections at a first end
3 of the extension cable.

1 8. The security enclosure of claim 7, wherein the extension cable
2 further includes a plurality of bonding pads at a second end of
3 the extension cable.

1 9. The security enclosure of claim 8, wherein wires connect the
2 interconnections and the bonding pads of the extension cable.

1 10. The security enclosure of claim 1, wherein a plurality of
2 bonding pads on the wrap are bonded to a plurality of bonding
3 pads on the extension cable.

1 11. The security enclosure of claim 10, wherein a thermal
2 compression bonding process bonds the bonding pads on the wrap to
3 the bonding pads on the extension cable.

1 12. The security enclosure of claim 1, wherein the wrap at least
2 partially covers the extension cable.

1 13. The security enclosure of claim 1, wherein the extension
2 cable comprises a flexible dielectric material.

1 14. A security enclosure, comprising:
2 an electronic assembly;
3 an extension, having a first end inserted in the assembly,
4 and a second end having at least one bonding pad thereon; and
5 a tamper respondent wrap at least partially surrounding the
6 assembly, having at least one corresponding bonding pad, wherein
7 the bonding pad of the extension is secured to the bonding pad of
8 the wrap.

1 15. The security enclosure of claim 14, wherein the first end of
2 the extension comprises at least one interconnection which forms
3 an electrical connection between the assembly and the extension.

1 16. The security enclosure of claim 15, wherein the at least one
2 interconnection is electrically connected to the at least one
3 bonding pad of the extension via a wire.

1 17. The security enclosure of claim 14, wherein the wrap further
2 includes an adhesive on an inner surface of the wrap to secure
3 the wrap to the assembly.

1 18. The security enclosure of claim 14, wherein the wrap further
2 includes a system of resistors connecting ink traces within the
3 wrap to the bonding pads of the wrap.

1 19. The security enclosure of claim 14, wherein the extension
2 comprises a flexible cable.

- 1 20. A security enclosure, comprising:
2 an electronic assembly; and
3 a tamper respondent wrap electrically connected to the
4 assembly via an attachable extension.
- 1 21. The security enclosure of claim 20, wherein the attachable
2 extension comprises a flexible extension cable.
- 1 22. The security enclosure of claim 20, wherein the tamper
2 respondent wrap comprises a plurality of bonding pads formed on
3 an end thereof.
- 1 23. The security enclosure of claim 21, wherein the extension
2 comprises a plurality of bonding pads formed on a first end
3 thereof.
- 1 24. The security enclosure of claim 23, wherein the bonding pads
2 of the wrap are secured to the bonding pads of the extension.
- 1 25. The security enclosure of claim 23, wherein the extension
2 further comprises a plurality of interconnections formed at a
3 second end of the extension.

1 26. The security enclosure of claim 22, wherein a system of
2 resistors electrically connects the bonding pads of the wrap to
3 ink trades of the wrap.

1 27. The security enclosure of claim 24, wherein the bonding pads
2 of the wrap are secured to the bonding pads of the extension
3 using a thermal compression bonding process.

1 28. A flexible extension for use in a security enclosure,
2 comprising:

3 a first end having a plurality of interconnections which are
4 inserted within an electronic assembly of the enclosure;

5 a second end having a plurality of bonding pads thereon

6 which are secured to a tamper respondent wrap of the enclosure;

7 and

8 wherein the cable electrically connects the wrap and the
9 assembly.

1 29. The flexible extension of claim 28, wherein the bonding pads
2 of the extension are bonded to bonding pads of the wrap.

1 30. The flexible extension of claim 28, wherein the extension
2 comprises a dielectric material.

1 31. A method of forming a security enclosure, comprising:
2 providing an electronic assembly having an opening therein;
3 inserting a first end of an extension within the opening of
4 the assembly;
5 wrapping a tamper respondent wrap at least partially around
6 the assembly; and
7 electrically connecting a second end of the extension to the
8 wrap.

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